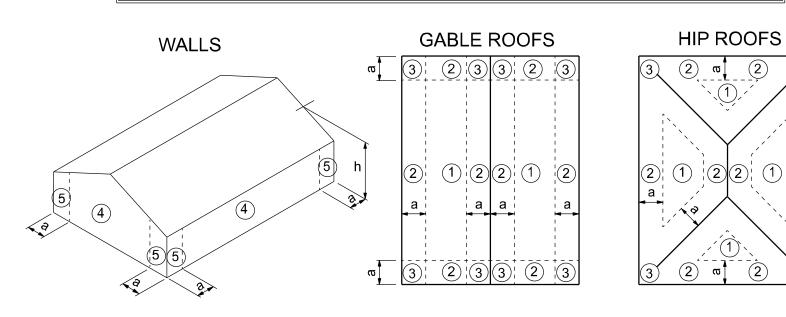
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE 7TH EDITION (2020)					
	FLOOR	AND ROOF LIVE LOADS			
UNINHABITABLE ATTICS:	F				
HABITABLE ATTICS, BEDROOM:		30 PS	F		
ALL OTHER ROOMS:		40 PS	F		
GARAGE:		40 PS	F		
ROOFS:		20 PSF UNI	FORM		
WIND DESIGN DATA					
ULTIMATE WIND SPEED: 125 MPH					
NOMINAL (BASIC) WIND SPEED:		97 MP	Н		
RISK CATEGORY:		II			
WIND EXPOSURE:		В			
ENCLOSURE CLASSIFICATION:		ENCLOSED			
INTERNAL PRESSURE COEFFICIE	ENT:	0.18 +/-			
C	ОМРО	NENTS AND CLADDING			
ROOFING ZONE 1:		16.0 PSF MAX.	-17.0 PSF MIN.		
ROOFING ZONE 2:		16.0 PSF MAX.	-19.8 PSF MIN.		
ROOFING ZONE 3:		16.0 PSF MAX.	-19.8 PSF MIN.		
ROOFING AT ZONE 2 OVERHANG	S:	-28.8 PSF MIN.			
ROOFING AT ZONE 3 OVERHANG	S:	-28.8 PSF MIN.			
STUCCO, CLADDING, DOORS AND WINDOWS					
ROOFING ZONE 4:		17.0 PSF MAX.	-18.4 PSF MIN.		
ROOFING ZONE 5:		17.0 PSF MAX.	-22.7 PSF MIN.		
9' WIDE O/H DR.:		16.0 PSF MAX.	-16.9 PSF MIN.		
16' WIDE O/H DR.:		16.0 PSF MAX16.0 PSF MIN.			



- a: 10% of least horizontal dim. or 0.4h, whichever is smaller, but not less than
- either 4% of least horizontal dimension or 3 ft.

h: mean roof height, in feet. COMPONENTS AND CLADDING

STRUCTURAL DESIGN CRITERIA

FLORIDA BUILDING CODE 7TH EDITION (2020) CODES:

BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2018 EDITION APA PLYWOOD DESIGN SPECIFICATION

LIVE LOADS:

RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED BALCONIES

40 PSF 40 PSF

20 PSF (REDUCIBLE)

20 PSF

2500 PSI

3000 PSI

ASTM A185

ASTM A615-40 40,000 PSI

ASTM A615-40 40,000 PSI

STAIRS LIGHT PARTITIONS (DEAD LOAD), U.N.O.

WIND LOADS BASED ON FBC, SECTION 1609

CONCRETE

(F.B.C.)

WIND LOADS:

WIND VELOCITY: 125 M.P.H., USE FACTOR: 1.0

STRENGTH @ 28 DAYS

ALL CONCRETE UNLESS OTHERWISE INDICATED PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)

REINFORCING:

WELDED WIRE FABRIC SHALL CONFORM TO ALL REINFORCING BARS ALL STIRRUPS AND TIES

CONCRETE **MASONRY**

ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI MORTAR TYPE "S" 1800 PSI

CONCRETE GROUT 3000 PSI UNITS: CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O

STRUCTURAL SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL: ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

WOOD FRAMING: BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. NO. 2 SOUTHERN YELLOW PINE (19% M.C.) ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, or OSB

WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB VERSA LAM BEAM Fb = 2900 PSI (2.0E) WOOD COLS. PARALLAM 2.0E U.N.O.

WOOD ROOF TRUSSES:

DESIGN LOADS:

TOP CHORD LIVE AND DEAD LOAD:

BOTTOM CHORD DEAD LOAD:

SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS. DESIGN FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL DEAD LOAD.

FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24)

SOIL BEARING

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 1,500 PSF SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN.

30 PSF

10 PSF

40 PSF



PROJECT LOCATION **COLUMBIA COUNTY** 07-4S-16-02806-010

ABBREVIATIONS

.B. bv.	Anchor Bolt Above	Flr. Fdn.	Floor Foundation	Plt. Ht. Plt Sh.	Plate Height Plant Shelf
/C	Air-Conditioner	Flr. Sys.	Floor System	PSF	Pounds per square foot
dj.	Adjustable	F.Pl.	Fireplace	P.T.	Pressure Treated
.É.F.	Above Finished Floor	Ft.	Foot / Feet	Pwd.	Powder Room
	Air Handler Unit	Ftg.	Footing	Rad.	Radius
LT.	Alternate	FΧ̈́	Fixed	Ref.	Refrigerator
.C.	Base Cabinet	Galv.	Galvanized	Req'd.	Required
.F.	Bifold Door	G.C.	General Contractor	Rm.	Room
	Book Shelf	G.F.I.	Ground Fault Interrupter	Rnd.	Round
m.	Beam	G.T.	Girder Truss	R/SH	Rod and Shelf
OT.	Bottom	Hdr.	Header	SD.	Smoke Detector
.P.	Bypass door	Hgt.	Height	S.F.	Square Ft.
rg.	Bearing	ΗĔ	Hose Bibb	Sh.	Shelves
ir.	Circle	Int.	Interior	SHT	Sheet
lg.	Ceiling	K/Wall	Kneewall	S.L.	Side Lights
οĬ.	Column	K.S.	Knee Space	S.P.F.	Spruce Pine Fir
	A/C Compressor	Laun.	Laundry	Sq.	Square
.T.	Ceramic Tile	Lav.	Lavatory	S.Y.P.	Southern Yellow Pine
	Dryer	L.F.	Linear Ét.	Temp.	Tempered
ec.	Decorative	L.T.	Laundry Tub	Thik'n.	Thicken
ed.	Dedicated Outlet	Mas.	Masonry	T.O.B.	Top of Block
bl.	Double	Max	Maximum	T.O.M.	Top of Masonry
ia.	Diameter	M.C.	Medicine Cabinet	T.O.P.	Top of Plate
isp.	Disposal	MDP	Master Distribution Panel	Trans.	Transom Window
ist.	Distance	Mfgr.	Manufacturer	Тур.	Typical
.S.	Drawer Stack	Micro.	Microwave	UCL	Under Cabinet Lighting
.V.	Dryer Vent	Min	Minimum	U.N.O.	Unless Noted Otherwise
.W.	Dishwasher	M.L.	Microlam	VB	Vanity Base
a.	Each	Mir.	Mirror	Vert.	Vertical
.W.	Each Way	Mono	Monolithic	V.L.	Versalam
lec.	Electrical	N.T.S.	Not to Scale	VTR	Vent through Roof
lev.	Elevation	Opn'g.	Opening	W	Washer
xt.	Exterior	Opt.	Optional	W/	With
хр.	Expansion	Pc.	Piece	W/C	Water Closet
B.C.	Florida Bldg. Code	Ped.	Pedestal	W.A.	Wedge Anchor
n. Flr.		P.L.	Parallam	Wd	Wood
G.	Fixed Glass	PLF	Pounds per linear foot	WP	Water Proof
			·		

INDEX OF SHEETS

<u>SHEET</u> **DESCRIPTION** A-1 **COVER SHEET** A-2 FLOOR PLAN A-3 ELEVATIONS FRONT AND REAR **ELEVATIONS SIDES** A-5 FOUNDATION PLAN ROOF PLAN

ELECTRICAL PLAN

SHEARWALL DETAILS

SECTIONS AND FRAMING DETAILS

CONSTRUCTION DOCUMENTS THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DIS-CREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

GENERAL PLAN NOTES

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

USUALLY GREENISH IN COLOR.

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

INORGANIC ARSENICAL PRESSURE TREATED WOOD SOME FRAMING MATERIALS SPECIFIED FOR THE CONSTRUCTION OF YOUR PROJECT SUCH AS SILLS OR EXTERIOR FRAMING ARE PRESSURE TREATED. EACH PIECE IS CLEARLY MARKED FOR EASY IDENTIFICATION AND IS

THIS WOOD HAS BEEN PRESERVED BY PRESSURE-TREATMENT WITH AN EPA-REGISTERED PESTICIDE CONTAINING INORGANIC ARSENIC TO PROTECT IT FROM INSECT ATTACK AND DECAY. EXPOSURE TO TREATED WOOD MAY PRESENT CERTAIN HAZARDS, THEREFORE, PRECAUTIONS SHOULD BE TAKEN BOTH WHEN HANDLING THE TREATED WOOD AND IN DETERMINING WHERE TO USE OR DISPOSE OF THE TREATED WOOD.

FOR FURTHER INFORMATION ON THE USE OF AND DISPOSAL OF INORGANIC ARSENIC PRESSURE TREATED WOOD, PLEASE REFER TO THE EPA MATERIAL SAFETY SHEET DEALING WITH THIS PRODUCT.

PREFABRICATED WOOD TRUSSES

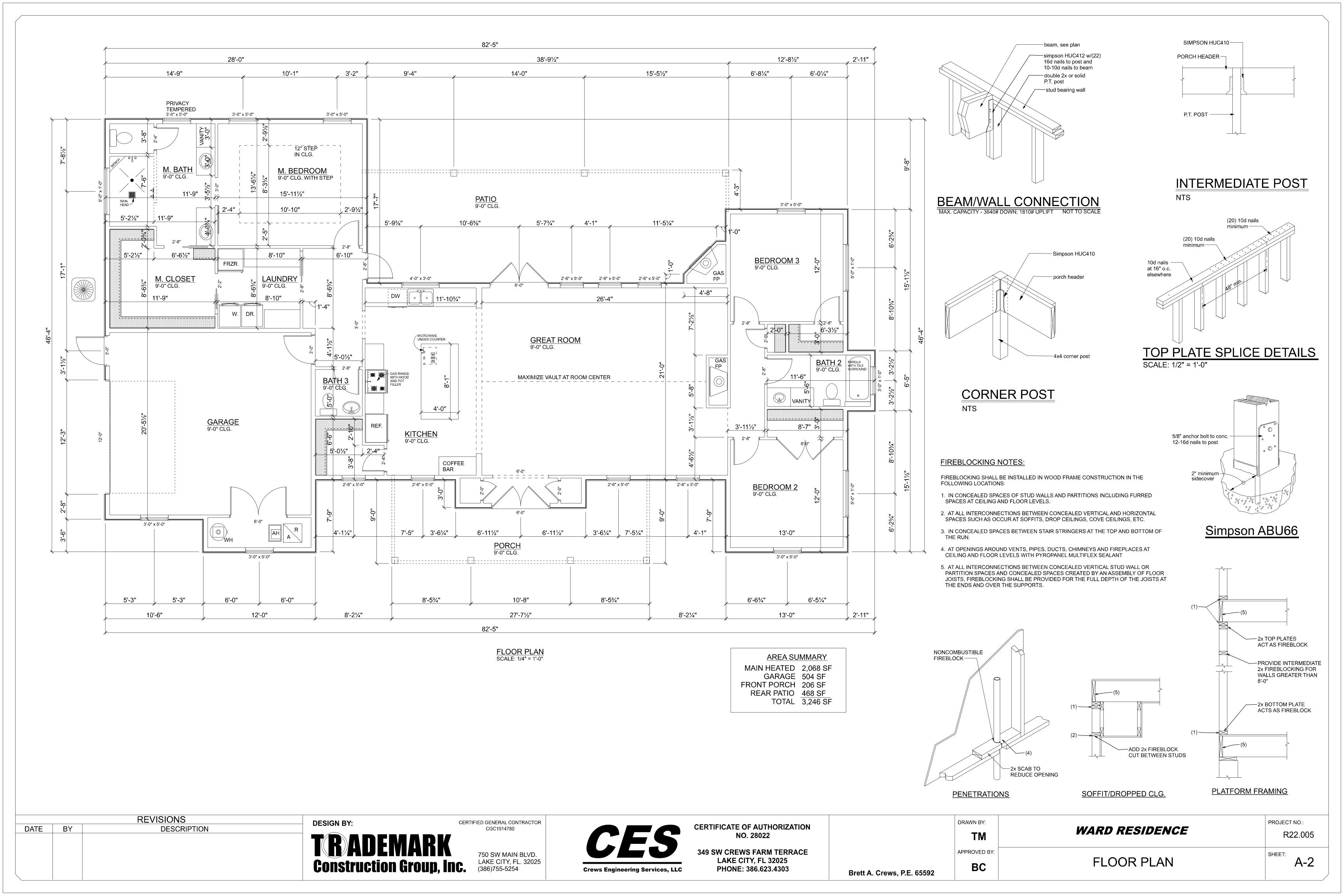
- 1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH **HURRICANE CLIPS OR ANCHORS**
- 2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- 3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPOR-TIONED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD. 4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS
- REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS. 5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE FOLLOWING
- DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION.
- 7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES . SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

FIELD REPAIR NOTES

DESIGN LOADS:

- 1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS. 2. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUB-
- STITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. X 6" DEEP UNITEX "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS (OR 1/2" X 6" RAWL STUD EXPANSION ANCHORS.) 3. REGARDING MISSED REBAR IN VERTICAL FILLED CELLS:
- DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDDEMENT EPOXY (SIMPSON "EPOXY TIE SET", OR HILTI " 2 PART" EMBEDDMENT EPOXY), MIXED PER MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
- 4. HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
- 5. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING)







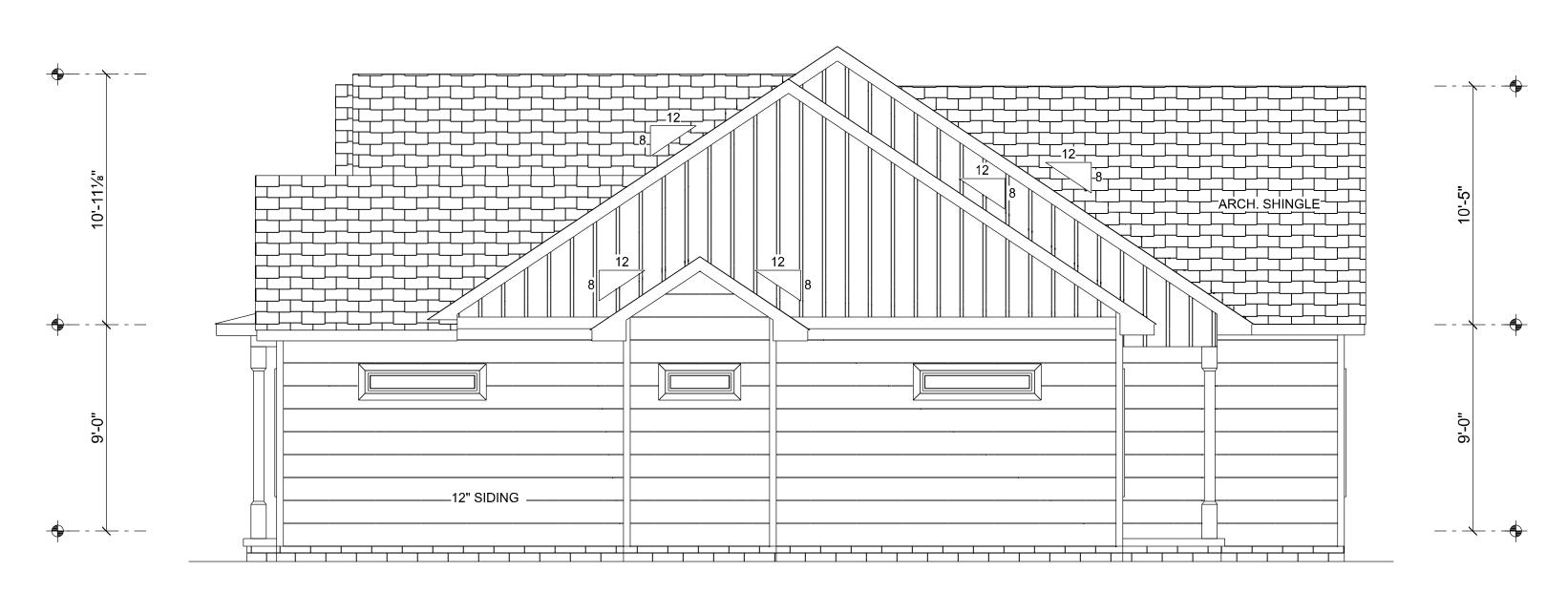
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



REAR ELEVATION
SCALE: 1/4" = 1'-0"

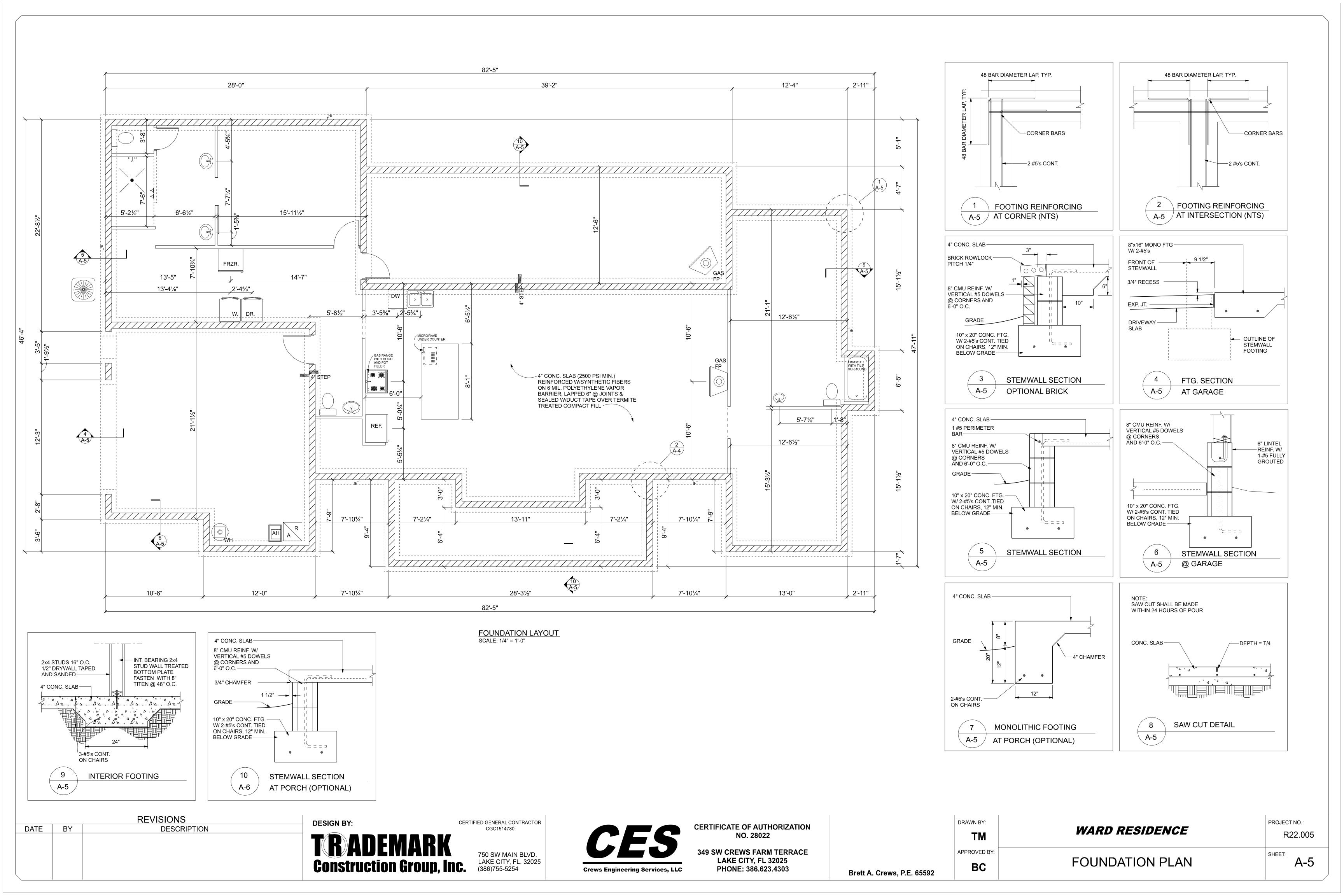
		REVISIONS	DESIGN BY:	RTIFIED GENERAL CONTRACTOR				DRAWN BY:		PROJECT NO.:
DATE	BY	DESCRIPTION		CGC1514780		CERTIFICATE OF AUTHORIZATION NO. 28022		TM	WARD RESIDENCE	R22.005
			TRADEMARK Construction Group, Inc.	750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254	Crews Engineering Services, LLC	349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303	Brett A. Crews, P.E. 65592	APPROVED BY:	ELEVATIONS FRONT AND REAR	SHEET: A-3

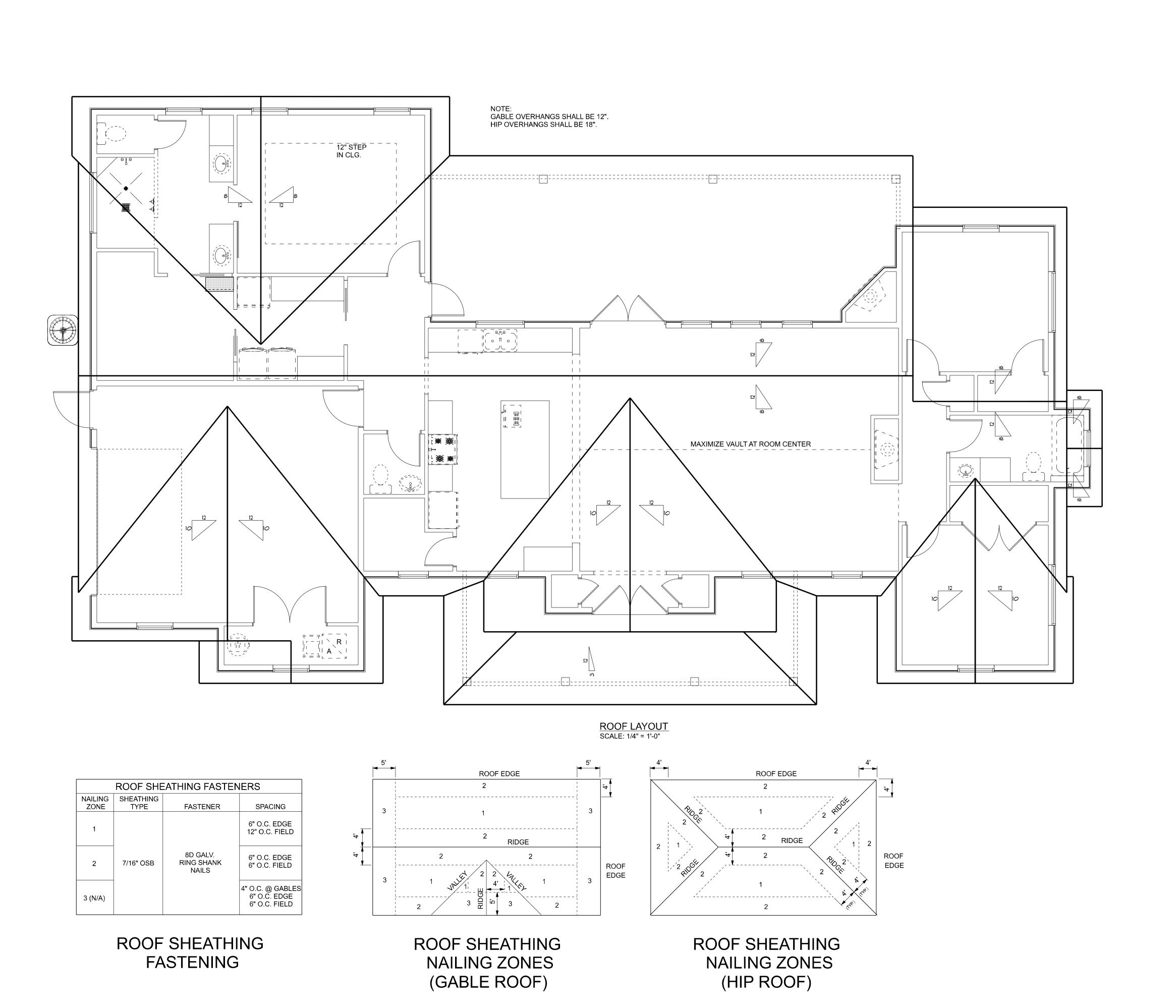


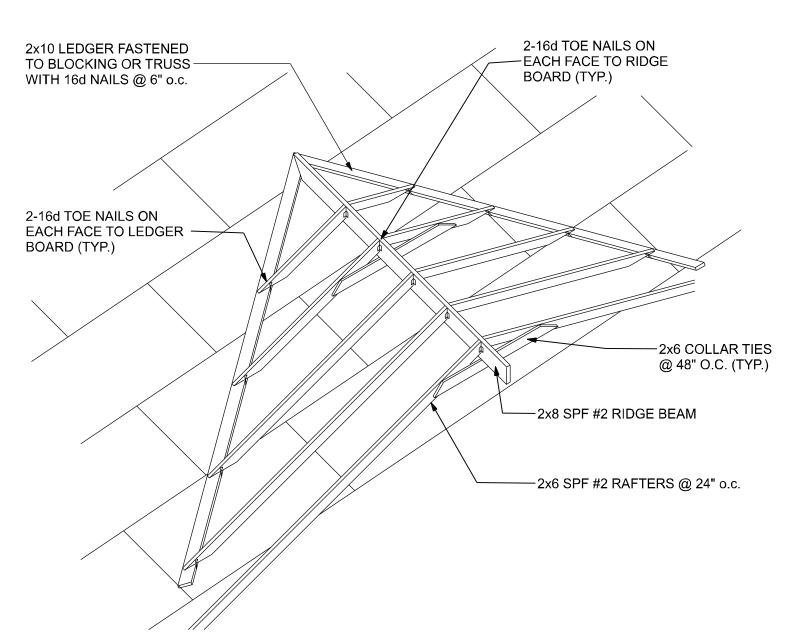


RIGHT ELEVATION
SCALE: 1/4" = 1'-0"

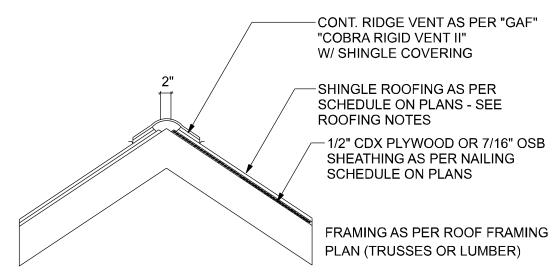
REVISIONS DATE BY DESCRIPTION	TOADEMADU	FIED GENERAL CONTRACTOR CGC1514780	CEC	CERTIFICATE OF AUTHORIZATION NO. 28022		DRAWN BY:	WARD RESIDENCE	PROJECT NO.: R22.005
	Construction Group, Inc.	750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254	Crews Engineering Services, LLC	349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303	Brett A. Crews, P.E. 65592	APPROVED BY:	ELEVATIONS SIDES	SHEET:





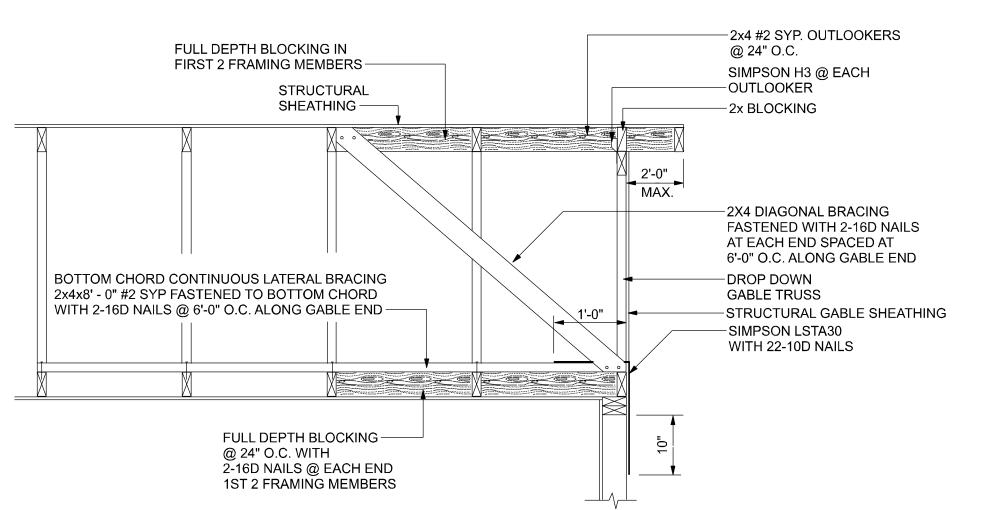


ROOF INTERSECTION CONNECTION DETAIL



RIDGE VENT DETAIL

VENTING SHALL BE PROVIDED SUCH THAT TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED



END WALL BRACING FOR CEILING DIAPHRAGM

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

DESIGN BY: CERTIFIED GENERAL CONTRACTOR CGC1514780 TRADEMARK LAKE CITY, FL. 32025 (386)755-5254 **Construction Group, Inc. Crews Engineering Services, LLC**

REVISIONS

DATE BY

DESCRIPTION



CERTIFICATE OF AUTHORIZATION NO. 28022

349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303

	TM
	APPROVED BY
Brett A. Crews, P.E. 65592	ВС

DRAWN BY:

PROJECT NO.: **WARD RESIDENCE** R22.005 **ROOF PLAN** A-6

SHINGLE NOTES:

DECK REQUIREMENTS: ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 4:12 OR GREATER. FOR ROOF SLOPES FROM 3:12 TO 4:12, DOUBLE UNDERLAYMENT

UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET: SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION: FOR ROOF SLOPES FROM 3:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:

1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS: STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:

BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.

1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2. 2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.

3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:

1. BOTH TYPES 1 AND 2 ABOVE, COMBINED. 2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH

ASTM D 224. 3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

MATERIAL	MINIMUM	GAGE	WEIGHT
	THICKNESS (in)		(LB)
COPPER			1
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (zinc coated G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.027		2 1/2 20

-COMPOSITE SHINGLES INSTALLED PER MFGR. RECOMMENDATIONS OVER #15 FELT 7/16" O.S.B. ROOF SHEATHING INSTALLED PERPENDICULAR TO ROOF TRUSSES WITH STAGGERED END JOINTS. NAILED WITH 8d RINGSHANK NAILS @ 6" O.C. ON EDGES AND 12" O.C. IN FIELDS OVER ENG. WOOD TRUSSES @ 24" O.C. SEE PLAN SEE CONNECTOR SCHEDULE R-30 BATT OR -FOR TRUSS ANCHORAGE **BLOWN INSULATION** WITH INSULATION BAFFLE AT EAVE SEE ELEVATIONS TOP OF PLATE 1/2" OR 5/8" GYP. BD. CEILING TAPED AND SPRAYED 2x6 SUBFASCIA ALUM DRIP EDGE ALUM FASCIA VINYL VENTED SOFFIT 1'-6" 1/2" GYP. BD. TAPED AND PAINTED R-13 BATT INSULATION -6" VINYL SIDING 7/16" OSB WALL SHEATHING 1/2" ALL THREAD ROD FASTEN W/ 8d COMMON FROM FOUNDATION TO TOP PLATE, FASTENED @ 6" O.C. EDGES / 12" O.C. INT TO WITH NUT AND 3"x3" WASHER NO. 15 FELT 2 x 6 #2 SPF GRADE OR BTR. STUDS @ 16" O.C. P.T. PLATE ANCHORED PER SHEARWALL PLAN 4" CONC. SLAB (2500 PSI. MIN.)-REINFORCED WITH SYNTHETIC FIBERS ON 6 MIL. POLYETHYLENE VAPOR BARRIER, LAPPED 6" @ JOINTS AND SEALED WITH DUCT TAPE OVER TERMITE TREATED COMPACTED FILL 100'-0" (ASSUMED) TOP OF SLAB ______ -8" CMU STEMWALL REINF. WITH GRADE #5 DOWELS IN FULLY GROUTED CELLS @ CORNERS AND 4'-0" O.C. FOUNDATION PLAN -12" MIN DISTANCE BELOW GRADE

TYPICAL WALL SECTION

3/4" = 1'-0"

CONSTRUCTION DOCUMENTS: THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

DO NOT SCALE THESE PLANS:

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMATIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO PLAN SETS:

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

SIMPSON HUC212-2 PER MANUFACTURER −P.T. 6x6 SIMPSON ABW66 FASTENED WITH 1/2" TITEN MIN. 5" EMBED AND 12 - 10D 3" TREATED NAILS TOP OF SLAB TYP. PORCH SECTION FOR FOOTING DETAILS SCALE: NTS -VALLEY METAL — ASPHALT SHINGLES SHEATHING —

SIMPSON H2.5

PER MANUFACTURER

SEE ELEVATIONS

TOP OF PLATE

VINYL VENTED SOFFIT

2x6 SUBFASCIA

ALUM FASCIA

ALUM DRIP EDGE

SEE PLAN

VINYL SOFFIT

OVER 1x FURRING 24" O.C.

<u>UPLIFT CONNECTORS</u>

1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS.

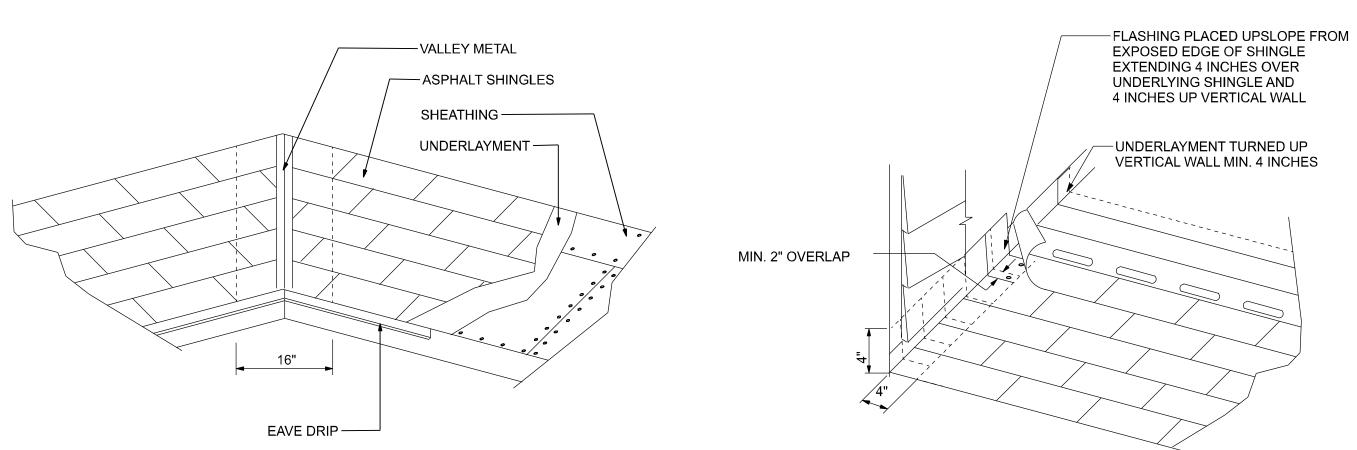
FIELD REPAIR NOTES

- 1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS.
- 2. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUB-STITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. X 6" DEEP UNITEX "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS (OR 1/2" X 6" RAWL STUD EXPANSION ANCHORS.)
- 3. REGARDING MISSED REBAR IN VERTICAL FILLED CELLS: DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDDEMENT EPOXY (SIMPSON "EPOXY TIE SET", OR HILTI " 2 PART" EMBEDDMENT EPOXY), MIXED PER MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM
- 4. HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
- 5. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING)

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FORM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
- 2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORK-MANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
- 3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
- 4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.

- THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
- ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
- 7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
- 8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.



DATE BY	REVISIONS DESCRIPTION	DESIGN BY: TRADEMARK	CERTIFIED GENERAL CONTRACTOR CGC1514780	CFS	CERTIFICATE OF AUTHORIZATION NO. 28022	DR	RAWN BY:	WARD RESIDENCE	PROJECT NO.: R22.005
		Construction Group, In	750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254	Crews Engineering Services, LLC	349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303	Brett A. Crews, P.E. 65592	BC	SECTIONS AND FRAMING DETAILS	SHEET:

RULES:

One all-thread rod at each corner.

2. One all-thread rod at each end of shearwalls.

3. One all-thread rod at each end of opening headers greater than 3'-0"

4. Check sub-sheathing to top plate connection for horizontal transfer capability.5. If necessary, add all-thread rods to girders individually to exclude the from average uplift plf.6. Check sole plate to slab connection, additional anchors may be required for lateral and shear load transfer.

ALLOWABLE VALUES	
Connection Type	Allowable Value
Foundation / S.Y.P. Top Plate	3840 lbs.
Foundation / Spruce-Pine-Fir Top Plate	3840 lbs.
Lintel or Bond Beam / S.Y.P. Top Plate	3840 lbs.
Lintel or Bond Beam / Spruce-Pine-Fir Top Plate	3840 lbs.

Placement at slab level:

Corners
When presetting the all-thread rod at a building corner, the rod

the top plates and tightened securely.

Header ends

should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not

fall under the stud pack framing members.

Top Connections

Top connections made at corners and header ends shall be made within

2 inches of the framing pack. A nut and 3X3 washer shall be applied to

Intermediate Coupler Connections
When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end,

then threading the coupler back over the rod joint so each rod is

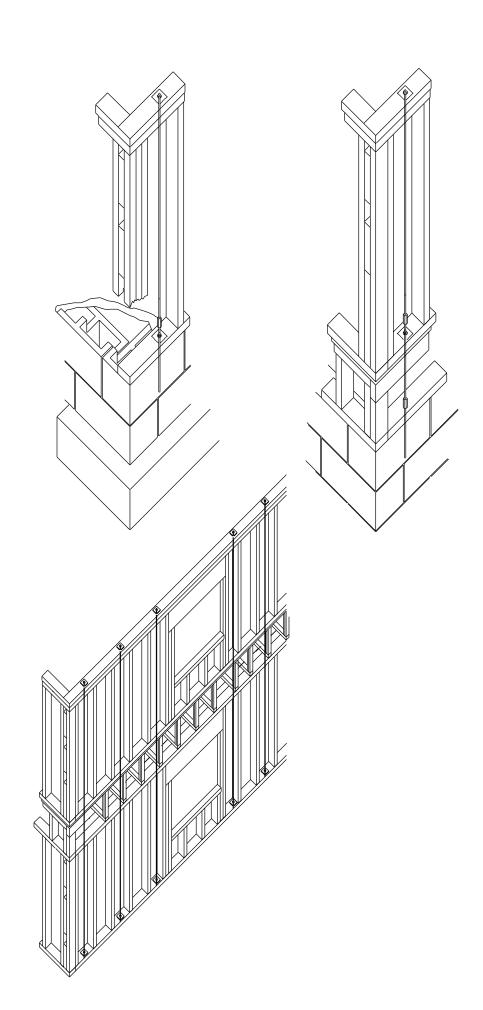
Retro-fits
In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

Sole plate to slab connection:

halfway into the coupler.

The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.



SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS

AS DEFINED BY STD 10-99 305.4.3.

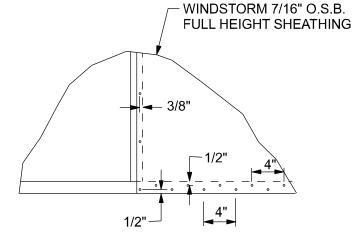
THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW

OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.

4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.

5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0" WALLS - (2'-3").

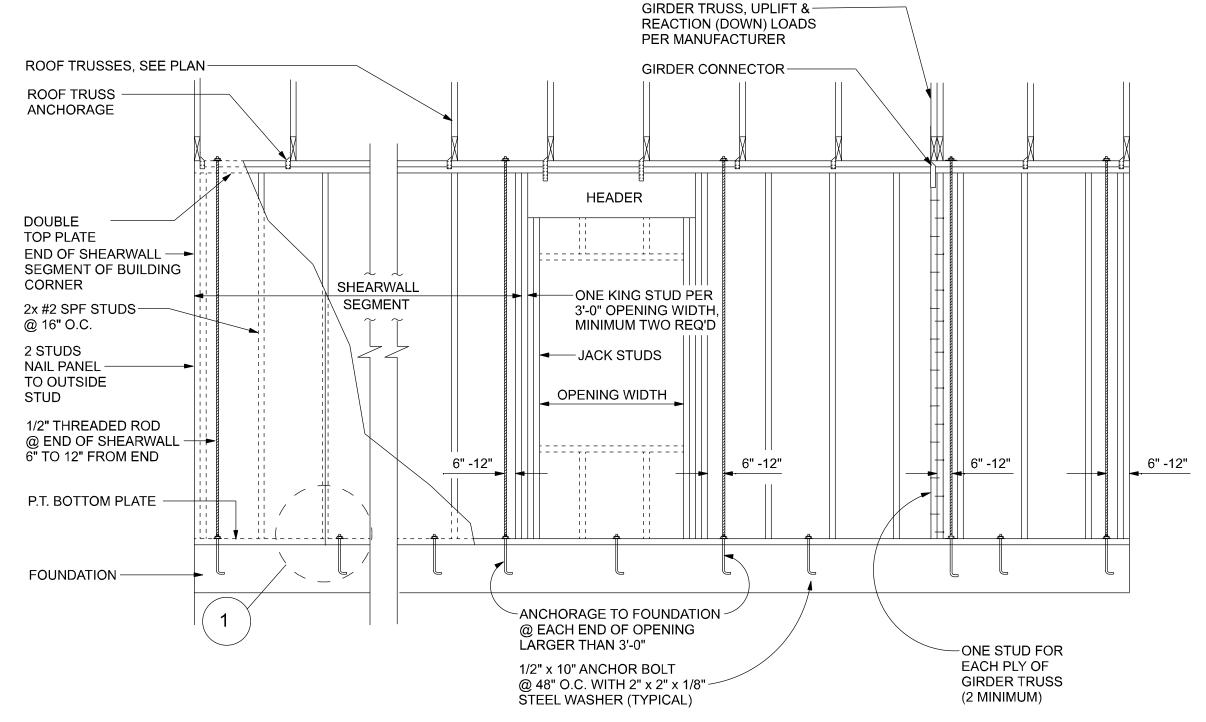
OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3



1 DOUBLE NAIL EDGE SPACING TOP AND BOTTOM PLATE

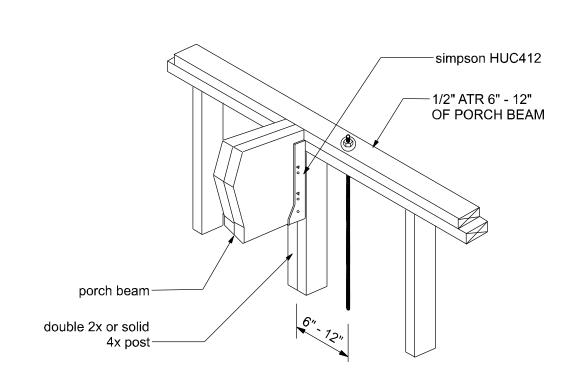
UPLIFT CAPACITY = 474 plf (TABLE 305S1 SSTD10-99)

NOTE: ALL WALL SHEATHING SHALL BE WINDSTORM 1 1/8" FULL HEIGHT SHEATHING-SEE DETAIL 1 FOR NAILING



SHEARWALL DETAILS SCALE: 1/2" = 1'-0"

NOTE: VERIFY GIRDER TRUSS LOCATION ON TRUSS LAYOUT FOR REQ'D ALL THREAD AT GIRDER LOCATION

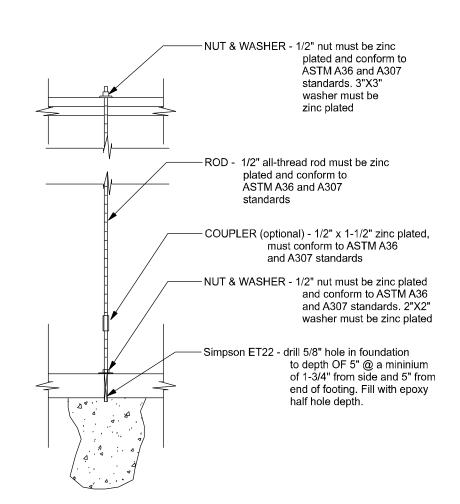


ALL THREAD @ PORCH BEAM NTS

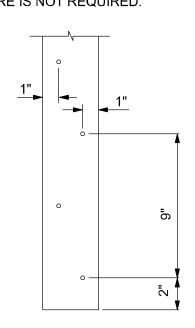
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120

OPENING CONNECTION REQUIREMENTS **CONNECTOR AT** ANCHORAGE TO **HEADER SIZE** CLEAR FOUNDATION @ EACH #2 GRADE OR EACH END OF OPENING END OF OPENING BETTER OPENING WIDTH END BEARING (2) 2x8 0' - 3' 1.5" >3' - 6' (2) 2x10 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD >6' - 9' (2) 2x12 3" 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD (2) 1 3/4" x 11 1/4" LVL - 2.0E >9' - 12' (2) 1 3/4" x 11 1/4" LVL - 2.0E 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD >15' - 18' (2) 1 3/4" x 11 1/4" LVL - 2.0E 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD

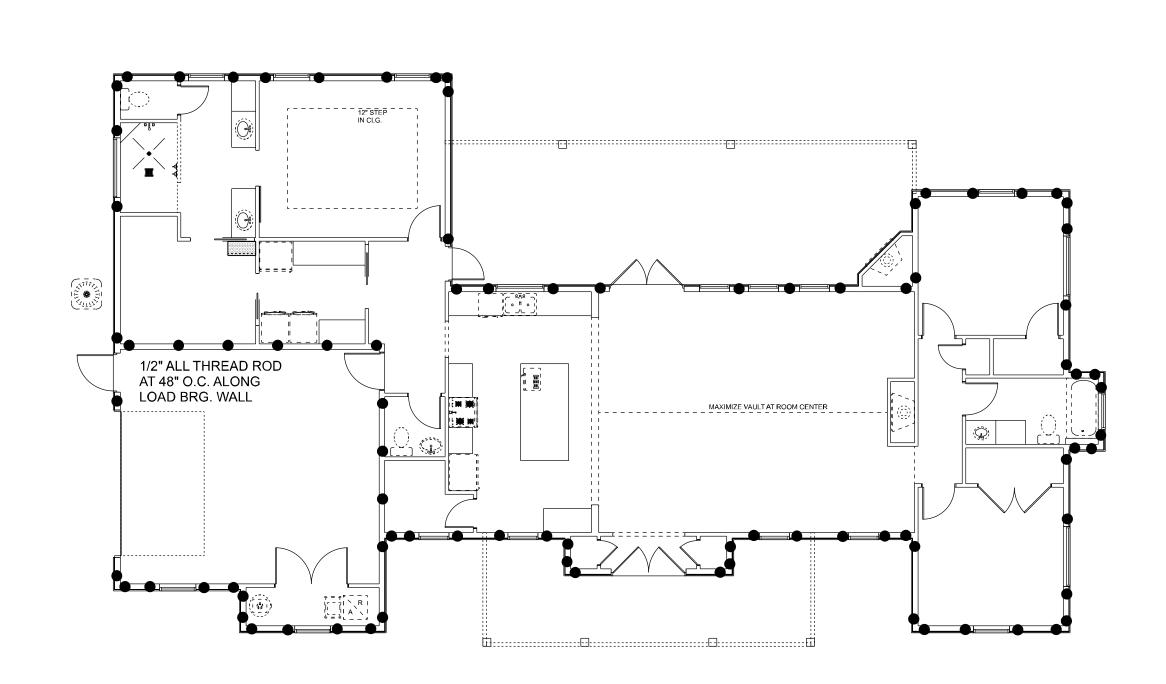


NOTE:
A SOLID MEMBER OF EQUAL OR
GREATER SIZE THAN MULTIPLE
MEMBERS MAY BE USED.
IF RATED SHEATHING IS APPLIED
TO NARROW EDGES, NAILED TO
EACH STUD AT 12" O.C. MAXIMUM,
THE LAMINATION NAILING SHOWN
HERE IS NOT REQUIRED.



GIRDER COLUMN DETAIL
SCALE: 1/2" = 1'-0"

END (TOP OR BOTTOM)



ALL THREAD DETAIL

ALL THREAD LOCATION

		REVISIONS	DESIGN BY:	C
DATE	BY	DESCRIPTION		
			TRADEMARK Construction Group, Inc	

CERTIFIED GENERAL CONTRACTOR CGC1514780

750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254



CERTIFICATE OF AUTHORIZATION NO. 28022

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DRAWN BY:
TM
APPROVED BY:
BC

Brett A. Crews, P.E. 65592

	WARD RESIDENCE	PROJECT NO.: R22.005
: [SHEARWALL DETAILS	SHEET: A-9